Resources for Investigator Development and Support

Rich D’Aquila, MD

The Howard Taylor Ricketts Professor of Medicine (ID), FSM
Director, Center for Clinical Research (CCR), NUCATS Institute
Accelerating Discovery & Implementation

Clinical and Translational Science Awards (CTSA)

Accelerating discovery & implementation for IMPACT

Basic Science  Pre-Clinical  Clinical Trials  Translation to Practice  Population Health
CTSAs – Mission and Structure

Shared resources: https://www.nucats.northwestern.edu/resources/chicago-ctsa-shared-resources.html

NUCATS PI:
Donald Lloyd-Jones
Renewal application now under review

Also in Chicago:
ITM (U Chicago+)
UIC
NUCATS’ Structure

Northwestern University Clinical and Translational Sciences Institute (NUCATS)

- **PI:** Donald Lloyd-Jones
- **CTI:** Alicia Loffler, Nick Maull
- **BERD:** Leah Welty
- **CCH:** Nammi Kandula, Darius Tandon
- **CECD:** Mike Fleming
- **CDSI:** Justin Starren
- **Galter Library:** Kristi Holmes
Your NUCATS Connection Starts Here
nucats.northwestern.edu
Training and Equipping the Translational Workforce (CECD and CCR)
At CECD Page – for residents, fellows, jr. faculty

https://www.nucats.northwestern.edu/education-and-careerdevelopment/investigator-development/index.html

Investigator Development

We offer a number of educational opportunities, workshops and seminars to support early career faculty members as they begin their careers in research and learn to teach others these critical skills.

- **Physician-Scientist Training Program (PSTP/index.html)**
  Designed to supplement residency programs with additional research-intensive training.

- **Master of Science in Clinical Investigation (MSCI/index.html)**
  This part-time program offers formal training in clinical research.

- **Taking Responsibility for the Responsible Conduct of Research (responsible-conduct-of-research.html)**
  This course covers how to ethically conduct biomedical research and responsibly train others to do so as well.

- **Navigating the Research Enterprise (navigating-research-enterprise.html)**
  An annual seminar series focused on developing key skills in early-career scientists.

- **Succeeding with Your K Award (succeeding-with-your-k-award.html)**
  Aims to help NIH-funded scientists learn to look at their own and others’ work in a critical but supportive manner.

- **Mentoring (mentoring/index.html)**
  Find resources for mentors and learn more about our mentoring consultation services.

- **Grant Writing Groups (https://www.feinberg.northwestern.edu/faq/career-development/scientists/grant-writing.html)**
  An alternative approach to teaching the art and science of writing NIH-style research proposals.

MPH program: https://www.feinberg.northwestern.edu/sites/cehs/our-programs/program-in-public-health/prospective-students/index.html
### CECD Leaders

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael Fleming, MD, MPH</td>
<td>Director</td>
</tr>
<tr>
<td>Mercades Carnethon, PhD</td>
<td>Director, FSM Mentor Development Academy and NUCATS Mentor Development Program</td>
</tr>
<tr>
<td>Ravi Kalthan, MD</td>
<td>Co-Director and Student Advisor, Master of Science in Clinical Investigation Program</td>
</tr>
<tr>
<td>Richard Pope, MD</td>
<td>Director, KL2 Program</td>
</tr>
<tr>
<td>Sharon Rosenberg, MD</td>
<td>Director, Good Clinical Practice and Research Staff Training</td>
</tr>
<tr>
<td>Kenzie A. Cameron, PhD, MPH</td>
<td>Director, Mentoring Consultation Service</td>
</tr>
<tr>
<td>Brian Hitsman, PhD</td>
<td>Director, Responsible Conduct of Research Training</td>
</tr>
<tr>
<td>Richard McGee, Jr., PhD</td>
<td>Director, Navigating the Research Enterprise (First Mondays) Program and Responsible Conduct of Research Training</td>
</tr>
<tr>
<td>Laura Rasmussen-Torvik, PhD</td>
<td>Director, Succeeding with your K Award (Third Mondays) Program</td>
</tr>
<tr>
<td>Bill Schnaper, MD</td>
<td>Director, Succeeding with your K Award (Third Mondays) Program</td>
</tr>
<tr>
<td></td>
<td>Director, TL1 Program</td>
</tr>
</tbody>
</table>

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*NUCATS Clinical and Translational Sciences Institute*  
*Northwestern*  
*Northwestern Medicine*  
*Ann & Robert H. Lurie Children's Hospital of Chicago*  
*Northwestern Medicine*  
*Feinberg School of Medicine*  
*Abilitylab*
Resources for Jr. Faculty - 1

And Fellows Transitioning to Jr. Faculty

• Grant writing groups
  – New groups 3 times/yr – 4 months before each NIH deadline
    • Email Rick McGee if interested
  – https://www.feinberg.northwestern.edu/fao/career-development/scientists/grant-writing.html

• Internal Training Awards
  – KL2 (similar to K23, goal to achieve individual K or R): Richard Pope
    • https://www.nucats.northwestern.edu/education-and-career-development/career-development-awards/kl2/index.html
  – TL1 - Multi-disciplinary training in child/adolescent health: Bill Schnapper
    • https://www.nucats.northwestern.edu/education-and-career-development/career-development-awards/tl1/index.html
Resources for Jr. Faculty - 2
And Fellows Transitioning to Jr. Faculty

- Succeeding with your K award – weekly series – Laura Rasmussen-Torvik
- “K community” (shared Chicagoland CTSA resource)
- Mentor Development – Mercedes Carnethon
  - Workshops for clinical/translational researchers, small groups, case-based
  - Mentor consultation services for departments/divisions – Mike Fleming
- Mentoring toolbox
  - IDPs, Compacts, Assessments
  - https://www.nucats.northwestern.edu/education-and-career-development/investigator-development/mentoring/toolbox.html
New Training Grant Support

Example of how this base can expand research training opportunities

• Third Coast HIV-related Cardiovascular (CV) and Sleep Disorders K12 Career Development Program (TC-CSK12, K12HL143959)
• PIs: John Schneider (UC) and Hossein Ardehali (NU)
• NU and UC – leveraging NUCATS CECD, “K Community”, and Third Coast Center for AIDS Research (CFAR) P30
• Objective: identify, inspire, and support development of independent, NHLBI-funded investigators in HIV research with strong and broad methodological and conceptual skills as well as collaboration expertise/enthusiasm
• 4 pathways: heart failure; CAD; sleep-disordered breathing; circadian disruption
• [https://www.thirdcoastcfar.org/tccsk12/](https://www.thirdcoastcfar.org/tccsk12/)
• **APPLICATIONS DUE MARCH 1, 2019**
New Faculty Onboarding Web Page

Overview video
• FSM research compliance policies
• Biostatistics Collaboration Center
• NMEDW
• Funding opportunities
• Galter Health Sciences Library
• Intro to Study Tracker
• Team Science
• INVO
• Sex inclusion tools
• Cores
• Tools/Links (IRB, CITI, OSR, ...)

NUCATS
Clinical and Translational Sciences Institute

Northwestern

http://nucats.northwestern.edu/new-faculty-onboarding
Teamscience.net Knowledge Gain.
Graph shows significant improvement (*, p<0.001) in TS knowledge and skills after taking the modules.
Galter Health Sciences Library

Fully integrated information and knowledge management hub

- Biosketch support
- Literature searches and systematic review support
- Research information support
- DigitalHub
- Classes available for training on EndNote, PubMed, DigitalHub and more
- Metrics and Impact Core (MIC)
Data Science and Informatics
NUCATS’ Comprehensive Informatics Architecture
Supports the Full Continuum of Translational Research

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<tr>
<th>Research Management</th>
<th>Clinical Applications and Data Access</th>
<th>Research Impact</th>
</tr>
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<tr>
<td>Study Tracker</td>
<td>Interleave (OMOP)</td>
<td>Galter Library Website</td>
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<tr>
<td>REDCap</td>
<td>i2b2</td>
<td>DigitalHub Repository</td>
</tr>
<tr>
<td>myNUCATS</td>
<td>All-of-Us</td>
<td>Symplectic Elements</td>
</tr>
<tr>
<td>Competitions</td>
<td>Abstractor</td>
<td>Alzheimer’s Elements</td>
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<td>NUcore</td>
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<tr>
<td>Kayako</td>
<td></td>
<td>Clarivate InCites</td>
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<tr>
<td>NOTIS</td>
<td></td>
<td>Data Analytics and Visualization</td>
</tr>
</tbody>
</table>

**NMEDW Data Stores**
- NMEDW “Business Logic”
- Ancillary Genomics System (AGS)
- NMPRO / EASI-PRO

**Non-NUCATS Enterprise Systems**

<table>
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<th>Clinical Systems</th>
<th>Northwestern Scholars</th>
<th>NU Grants Mgmt</th>
<th>Regulatory</th>
<th>NU Backoffice</th>
<th>FSM Website</th>
<th>Bibliographic</th>
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<tr>
<td></td>
<td></td>
<td>• Research Portal</td>
<td>• Electronic IRB</td>
<td>• Financials</td>
<td></td>
<td>• Scopus, PubMed, etc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• infoEd</td>
<td>• RSS (study parameters)</td>
<td>• HR</td>
<td></td>
<td>• ORCID Integration</td>
</tr>
</tbody>
</table>

**Access Control and Security**
Study Tracker

Formerly known as eNOTIS

- Study Tracker is the locally-built, full service clinical trials management system for all FSM, AbilityLab, and Lurie investigators

- FSM Clinical Research Participant Tracking
- Screening for Inclusion/Exclusion Criteria
- Registry Management
- Electronic Data Capture
- Participant Entry
- NMH Budget Creation and Submission
- Study Information
- Compliance Tracking
- Survey Administration
- Patient Study Calendar
- Consent Management
NM Enterprise Data Warehouse
Informing Clinical Research at Northwestern University

Northwestern Medicine Enterprise Data Warehouse (EDW)
By the Numbers

- More than 7.1 million distinct patients in data warehouse 2018
- More than 630 million clinical notes
- More than 242 million medication records since 1998
- More than 357 million coded procedures
- More than 284 million procedures records
- More than 2.5 million inpatient admissions in data warehouse
- More than 42.2 million outpatient visits in data warehouse

106 terabytes of data in the data warehouse
140 different applications feeding data to the data warehouse
NMEDW Modernization Architecture

Supports Advanced Analytics

Clinical Systems
- Epic
- Cerner
- Over 100 Ancillary Systems
- Ancillary Genomics System (AGS)*
- NM Patient Reported Outcomes (NMPRO)
- Research-Specific EHR Subsystems

NMEDW
- Natural Language Processing
- Advanced Analytics
- Integrated Data Stores
- Data Lakes

Feinberg Research Systems
- Study Tracker CTMS
- eIRB
- REDCap
- Other University Systems
- Registries
- NUgene Biobank
- Project Specific Platforms and Repositories

*AGS (Ancillary Genomics System)
Meet Sanjiv Shah, MD
Associate Professor of Medicine-Cardiology

- **Research project**: Heart failure with preserved ejection fraction (HFpEF)
- **Research needs**: Recruitment strategy for NHLBI-funded TOPCAT and NHLBI Heart Failure Clinical Research Network-funded NEAT-HFpEF studies
- **NUCATS solution**: Customized daily NMEDW report of NMH patients who fit pre-specified criteria based on free text, lab, and medication data
- **Outcome**:
  - NU was #1 enrolling U.S. site for TOPCAT study (among 155 sites), with 77 patients (2.2% of total) AND NEAT-HFpEF study, with 20 participants (18.2% of total)
  - Published first study to conduct high-density Big Data “phenomapping” of HFpEF

“The daily query of hospitalized NMH patients generated by the EDW/NUCATS allowed us to hone in on the typically difficult-to-identify HFpEF patients, thereby increasing our screening yield and allowing us to be a top enrolling site in multiple HFpEF clinical trials,” said Dr. Shah.
Using the NMEDW for Clinical Programs, Clinical Trials, Big Data Discovery, and QI

Heart Failure

Phenomapping for Novel Classification of Heart Failure With Preserved Ejection Fraction

Sanjiv J. Shah, MD; Daniel H. Katz, MD; Senthil Selvaraj, MD, MA; Michael A. Burke, MD; Clyde W. Yancy, MD, MSc; Mihai Gheorghiade, MD; Robert O. Bonow, MD; Chiang-Ching Huang, PhD; Rahul C. Deo, MD, PhD

- Phenogroup 1: Younger with lower BNP; least remodeling but majority DD and PA HTN
- Phenogroup 2: More obesity, diabetes, OSA; worst LV relaxation, highest PCWP
- Phenogroup 3: Older, more CKD, comorbidity; most remodeling

Survival free of CV hospitalization or death

Log-rank P<0.0001
Connect to the NMEDW and i2b2
High-throughput Phenotyping and Feasibility Analysis

- Northwestern Medicine Enterprise Data Warehouse (NMEDW)
  - Clinical data from EHR, clinical labs, diagnostic procedures, pathology, etc.
- What is i2b2? (Informatics for Integrating Biology and the Bedside)
  - Self Service Feasibility
  - NMEDW-i2b2: scleroderma
Using the NMEDW for Research

The primary ways to use the NMEDW for research are:

- i2b2 Feasibility Query Tool: A self-service tool for investigators to explore cohort availability.
- NMEDW Data Analysts: Use the research data request (https://edw.nm.org/portal/app/resources/requests) form to contact the analyst team. The fee to work with an NMEDW analyst is $75/hour, and the average charge for a research request is $900 (12 hours).
- NMEDW Pilot Data Program: A grant that allows young investigators to obtain feasibility or early pilot data in order to seek sustained funding.

Powerusers: Individuals who have skills using advanced database languages can apply via email (mailto:nmedw@northwestern.edu) to become a Poweruser and be granted direct access to the NMEDW.

See the frequently asked questions below, and review our Permissible Use Policy (permissible-use-policy-faq.html) for more information.

Does the NMEDW team have a capacity to handle all of these data requests?

The research analyst team has been expanded to meet the demand of this policy and can be further expanded to meet demand as needed.

How long does it take to get data from the NMEDW?

The time it takes to get data out of the EDW depends on a number of variables including how complex the request is, the availability of the requester, the requester's knowledge of the source data and how many requests are in the EDW queue. The EDW team strives to have a one-week turnaround for all requests, but because of the influx in requests driven by the new policy, the current request queue is closer to two to three weeks. A typical request requires eight to 12 hours of analyst time, spread out over a week.

How much does it cost to get data from the NMEDW?

An EDW analyst will work with you to provide an estimate for your specific request. The average request takes eight to 12 hours at $75 per hour.

I don't have the funds necessary to pay an EDW analyst for this data, especially when I, one of my staff or a medical student could abstract from the EMR at no cost. How am I supposed to pay for this?

In the case of prep-to-research, the EDW Pilot Data Program (https:///funding/pilot-funding/NMEDW.html) is one option sponsored by the Dean's office. For larger projects, the NUCATS voucher (https:///funding/pilot-funding/nucats-voucher-and-pilot-programs.html) may be appropriate.
Biostatistics & Research Design

• Biostatistics Collaboration Center (BCC) can help you:
  – Determine study design and sample size
  – Design a statistical analysis plan
  – Develop study protocols
  – Setup study databases
  – Analyze existing data
  – Prepare statistical reports
  – Author manuscripts, especially methods and results sections
  – Respond to reviewer comments

• Research Design Analysis Methods Program (RAMP) for Study Coordinators provide training in the primary components of health research design and analysis

• Free consultations are available by visiting feinberg.northwestern.edu/sites/bcc
StatTag

Supporting Reproducible Research

• StatTag is a free plug-in for conducting reproducible research and creating dynamic documents using Microsoft Word and Stata statistical software
• Allows users to embed statistical output (estimates, tables, and figures) within Word and provides an interface to edit statistical code directly from Word
• www.stattag.org
Connect to REDCap

Secure, Web-based Application for Research Data Capture

• Main functions
  – Authenticated data entry
  – Survey

• Benefits
  – Designed for medical research
  – Security measures
  – Export data to common data analysis packages (SAS, Stata, R, and SPSS)
  – Accessibility
  – Cost is subsidized by Feinberg School of Medicine

• Requirements
  – Must have a NU NetID for log-in
  – Research projects require NU or Lurie Children’s Hospital IRB approval
  – All users on a REDCap project must be listed on the IRB project/key contacts list
Feinberg School of Medicine team recruiting community members for the Third Coast Center for AIDS Research (CFAR) participant registry, called “CHAMP”

Worked with NUCATS support team to become the first study team at Northwestern to perform secure offline data capture through the new REDCap Mobile App

Registered more than 40 new registry participants at Chicago Pride Parade

“Thanks to the mobile app, the team moves from promoting a project to consent and baseline data collection at one time. We’re really appreciative of the support the CFAR received from NUCATS to make CHAMP happen.”

Judith Moskowitz, PhD, MPH
**REDCap & Study Tracker: eConsent**

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**DRAFT ECONSENT - Genomic Medicine at Northwestern: Discovery and Implementation in the eMERGE Network**

**Econsent**

---

**Record ID:** 1

**Record ID:** FHWXXX

(If you don’t see the case number above, please notify the study staff)

**Permission to Take Part in Human Research Study**

**PROTOCOL TITLE:** Genomic Medicine at Northwestern: Discovery and Implementation in the eMERGE Network

**PRINCIPAL INVESTIGATOR:** Maureen Smith, MS

**SUPPORTED BY:** Northwestern University, Northwestern Medicine, National Human Genome Research Institute (NHGRI)

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**Why am I being asked to take part in this research study?**

You are being asked to be in this study because you are a patient at Northwestern Medicine. This document has important information.

---

### Signature Section

Your signature documents your permission to take part in this research

**Participant's First Name**

* must provide value

---

**Participant's Last Name**

* must provide value

---

**Date**

* must provide value

**Your email (optional)**

For us to send you a copy of this consent document and to help us contact you in the future

---

**Signature of participant**

* must provide value

---

**First and Middle Names of Person Obtaining Consent**

---

**Last Names of Person**
# Education and Workforce Development

## Equipping the Translational Workforce of Tomorrow

<table>
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<th>Core Services</th>
<th>Primary Target Audience(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Faculty</td>
</tr>
<tr>
<td>Galtor Health Sciences Library (e.g., Informatics Series)</td>
<td>✓</td>
</tr>
<tr>
<td>Good Clinical Practices training (all listed on IRB application)</td>
<td>✓</td>
</tr>
<tr>
<td>Responsible Conduct of Research</td>
<td>✓</td>
</tr>
<tr>
<td>Sex Inclusive Research Guidelines &amp; Toolbox</td>
<td>✓</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Faculty Development</th>
<th>Primary Target Audience(s)</th>
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<tbody>
<tr>
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<td>Faculty</td>
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<tr>
<td>FSM Mentor Academy/Mentor Consultation Services</td>
<td>✓</td>
</tr>
<tr>
<td>Grant Writers Groups</td>
<td>✓</td>
</tr>
<tr>
<td>Master of Science in Clinical Investigation</td>
<td>✓</td>
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<tr>
<td>Mentor Development Workshop</td>
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<tr>
<td>Navigating the Research Enterprise (First Mondays)</td>
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<tr>
<td>Team Science workshops</td>
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<th>Training Grants</th>
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<td>Faculty</td>
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<tr>
<td>K12</td>
<td>✓</td>
</tr>
<tr>
<td>Succeeding With Your K Award (Third Mondays)</td>
<td>✓</td>
</tr>
<tr>
<td>Foundational Elements of Pediatric Translational Research</td>
<td>✓</td>
</tr>
<tr>
<td>Second Mondays</td>
<td>✓</td>
</tr>
<tr>
<td>Community Mentors</td>
<td>✓</td>
</tr>
<tr>
<td>R35P Mentors</td>
<td>✓</td>
</tr>
</tbody>
</table>

| Workforce Training - Trainees, Postdocs, Students                 | Primary Target Audience(s) |
|                                                                  | Faculty | K12/T1 Trainees | Clinical Fellows and Science Postdocs | Students | Research Staff | Community Members & Stakeholders |
| FSM Clinical & Translational Research Summer Seminar Series       | ✓       |                |                                         |          |                |                                     |
| Informatics graduate courses                                     | ✓       |                |                                         |          |                |                                     |

| Community & Stakeholders                                          | Primary Target Audience(s) |
|                                                                  | Faculty | K12/T1 Trainees | Clinical Fellows and Science Postdocs | Students | Research Staff | Community Members & Stakeholders |
| Capacity-building/educational sessions for faculty, staff, and    | ✓       | ✓              |                                         |          |                |                                     |
| community stakeholders                                           |          |                |                                         |          |                |                                     |
| Individual and group consultations for faculty and staff         | ✓       | ✓              |                                         |          |                |                                     |

| Workforce Training - Research Staff                               | Primary Target Audience(s) |
|                                                                  | Faculty | K12/T1 Trainees | Clinical Fellows and Science Postdocs | Students | Research Staff | Community Members & Stakeholders |
| PRRO Training for Study Coordinators                              | ✓       |                |                                         |          |                |                                     |
| Clinical Research Coordinator (CRC) Basic Training                | ✓       |                |                                         |          |                |                                     |
| EQA/ATR Conference                                                | ✓       |                |                                         |          |                |                                     |
| Introduction to Clinical Research                                 | ✓       |                |                                         |          |                |                                     |
| Master of Science in Regulatory Compliance                       | ✓       |                |                                         |          |                |                                     |
| Site Staff Regulatory Submissions                                 | ✓       |                |                                         |          |                |                                     |
Funding Programs
NUCATS Pilot & Voucher Grants

Providing Rapid, Targeted Funding to Address Critical Gaps in Clinical and Translational Research

- Both programs are designed to **accelerate** research by providing rapid, targeted funding to address small, but critical gaps in clinical and translational research work that is otherwise at present not funded by other sources

<table>
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<tr>
<th>Voucher Award Program</th>
<th>Pilot Award Program (includes Dissemination and Implementation Pilot Award)</th>
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<tr>
<td>Up to $2,500</td>
<td>Up to $20,000</td>
</tr>
<tr>
<td>Awarded on rolling basis</td>
<td>Awarded twice per year</td>
</tr>
<tr>
<td>~80% funded</td>
<td>~20% funded</td>
</tr>
<tr>
<td>Total awarded to date: $170,581</td>
<td>Total awarded to date: $240,000</td>
</tr>
</tbody>
</table>
Pilot Program
FY2015 - Present

50% reported **follow-on funding** (including K08, K23, R03 and R01 funding, with a U54 center proposal pending)

25% **published** one or more articles in a peer-reviewed journal

42% **disseminated findings** via conference invited lectures and/or poster presentations

Translational Research Phase Pilot Recipients

- **T0**
- **T1**
- **T2**
- **T3**
Supporting Clinical Research
## Center for Clinical Research

Adapting to Meet Increasing Service Demands

### NUCATS’ CCR Drives Clinical Research Through Direct Management and Support of Studies

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<th>CCR Program</th>
<th>Studies</th>
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</thead>
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<td></td>
<td>N, FY13</td>
</tr>
<tr>
<td>Regulatory</td>
<td>54</td>
</tr>
<tr>
<td>Finance</td>
<td>22</td>
</tr>
<tr>
<td>Recruitment</td>
<td>13</td>
</tr>
<tr>
<td>Coordinators</td>
<td>38</td>
</tr>
<tr>
<td>NMH CRU</td>
<td>82</td>
</tr>
<tr>
<td>LCH CRU (*Service began in FY15)</td>
<td>143†</td>
</tr>
</tbody>
</table>
Clinical Study Recruitment
FY2011 – FY2018

Subjects Enrolled per Fiscal Year

Total Subjects Enrolled (Cumulative)

Source: Study Tracker (eNOTIS)
Explosive Growth in Clinical Trial Enrollment
Potential for the Future
Trial Innovation Network (TIN)
Accelerating Multi-center Clinical Trials and Studies

• A collaborative initiative from NCATS/NIH with the goal of executing multi-center clinical trials and studies **better, faster, and more efficiently** by:
  – Building on local resources, and
  – Leveraging the expertise, skills, and knowledge of the CTSA consortium and new Trial and Recruitment Innovation Centers

• Outbound and inbound requests for participation by NUFSM investigators

• Services provided in collaboration with local NUCATS resources (e.g., Center for Clinical Research, NM Enterprise Data Warehouse, Biostatistics Collaboration Center)
The ACT Network

Clinical Data Informatics Tool

- The ACT Network provides access to a wealth of electronic health record data and accelerates clinical research by enabling real-time cohort discovery, verifying study feasibility, and fostering collaboration throughout the national network of CTSAs.
- Extension of i2b2 to 48 CTSA hubs.
- Offers over 440,000 queriable data elements and contains over 40 million patient records (and counting!)

https://www.nucats.northwestern.edu/resources/data-science-and-informatics/act.html
SMART IRB
National IRB Reliance Initiative

• Designed to ease common challenges associated with initiating multisite research and to provide a roadmap for institutions to implement the NIH Single IRB Review policy
• Streamline IRB review for multisite studies and eliminate the time and effort of negotiating IRB authorization agreements for each new study
• Online Reliance System allows investigators to request, track, and document reliance arrangements on a study-by-study basis
• NU SMART IRB Point of Contact (POC): Marcella Oliver (irbreliance@northwestern.edu)
Connect with NUCATS
Research Studio Consultations
One-on-One or Group Consultations Available

- Request a Studio if you are in the planning stages of a new program/center grant (U or P)
- Identify and leverage in-kind or heavily subsidized existing NIH-funded infrastructure
- Enhance grant submission
- Avoid infrastructure duplication and free up grant dollars for investment in scientific aims
Your NUCATS Connection Starts Here
nucats.northwestern.edu
Research Navigators make Connections
Human + machine >> human or machine

REQUEST A NUCATS CONSULTATION

Not sure who to contact in NUCATS? Let us know which areas you need more information or help and one of our Research Navigators will contact you.

First Name *
Last Name *
Email *
Phone
Affiliation - None -
Role - None -

How may NUCATS be of service? *
Please describe your question and/or research support needs.

Please contact me or send me information about:

☐ Center for Translational Innovation (e.g., NXT Fund, Chicago Innovation Mentors, commercialization & entrepreneurship, intellectual property)
☐ Center for Clinical Research (e.g., regulatory, budgeting, recruitment, clinical research coordinator, Clinical Research Unit services)
☐ Center for Education and Career Development (e.g., XL2 & TL1 training programs, MSCD degree program, Good Clinical Practice training, workshops/conferences)
☐ Center for Community Health (e.g., SCHARP panels, community engagement consultations, seed grants, Alliance for Research in Chicagoland Communities, REACH, Pediatric Practice Research Group)
☐ Center for Data Science and Informatics (e.g., EDW/Enterprise Data Warehouse, i2b2, Study Tracker, REDCap)
☐ Gallier Health Sciences Library (e.g., NIH biosketch support, bibliometrics/ scientific literacy research, Metrics & Impact Core support)
☐ Biostatistics Collaboration Center (e.g., biostatistics consultations, RAMP Methodology Challenge)
☐ NUCATS Pilot and Voucher Funding
☐ Other (Please specify)

Send Request
Thank you!

Questions?